Operation notes on nvidia TX2

1. adb devices shows "no_permissions"
    (ref: https://stackoverflow.com/questions/53887322/adb-devices-no-permissions-user-in-plugdev-group-are-your-udev-rules-wrong)

    # Check vid/pid
    $ lsusb

    # create and edit rules file
    $ sudo vi /etc/udev/rules.d/51-android.rules
        # add following string to "51-android.rules"
        SUBSYSTEM=="usb", ATTR{idVendor}=="05c6", ATTR{idProduct}=="90cb", MODE="0666", GROUP="plugdev"

    # reload rules file
    $ sudo udevadm control --reload-rules

    重新 plug-in/out usb
    再次 adb devices 查看結果.

2. ffplay cmd finds no video devices, /dev/video* can't finds devices.
    (ref: https://askubuntu.com/questions/1214794/usb-camera-is-not-detected-anymore)

    $ sudo apt install uvcdynctrl

3. python and opencv-python issues

#reinstall specified cv2 version to avoid any different appearance.
$ pip3 uninstall opencv-python
$ pip3 install opencv-python==4.5.1.48
If terminal shows "python setup.py egg_info" failed with error code 1", refer to following:
(ref: https://www.itread01.com/content/1560824403.html)

 # upgrade pip
$ pip3 install --upgrade pip

 # install setuptools
$ pip3 install setuptools
 # May show warnings, change to use following cmd.
$ python3 -m pip install setuptools.

 # re-install opencv-python
$ pip install opencv-python==4.5.1.48
 # May show warnings, change to use following cmd.
$ python3 -m pip opencv-python==4.5.1.48

 # try to sun python3 and import cv2
$ python3
>> import cv2
If terminal shows "Illegal instruction (core dumped)" → install numpy v1.19.4
(ref: https://blog.csdn.net/lun55423/article/details/114574573)
>> exit()
$ python3 -m pip install numpy==1.19.4

4. python and opencv issues

Issues: tryioctl videoio(v4l2 /dev/video0) select() timeout
   (ref: https://www.raspberrypi.org/forums/viewtopic.php?t=35689)

```
lsmod
sudo rmmod uvcvideo
sudo modprobe uvcvideo quirks=128 nodrop=1 timeout=6000
重開機
```

Issues: cv2.videocapture can't open camera by index

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須改用 sudo  執行, e.g.:
Sudo 1_runuvctool.sh
Or
Sudo 2_openapp.sh
Sudo python3 pyCVTest_ub.py
```